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PATENTS

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Wangqi HOU, et al.

Group Art Unit: 3672

Serial No: 09/595,996

Docket: PER0025 (14285)

Filed: June 16, 2000

Dated: April 26, 2001

**For: SURFACTANT BLENDS FOR
AQUEOUS SOLUTIONS USEFUL FOR
IMPROVING OIL RECOVERY**

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MAY 03 2001

Assistant Commissioner for Patents
United States Patent and Trademark Office
Washington, D.C. 20231

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INFORMATION DISCLOSURE STATEMENT

Sir:

In accordance with 37 C.F.R. §§ 1.97 and 1.98, it is requested that the following references, which are also listed on the attached Form PTO-1449, be made of record in the above-identified case.

1. A Low-Tension Waterflooding Process, W.R. Foster, Journal of Petroleum Technology, Vol. 25, pages 205-210, (February 1973);
2. U.S. Patent No. 3,811,504, issued to Flournoy, et al., dated May 21, 1974;

CERTIFICATE OF MAILING UNDER 37 C.F.R. §1.8(a)

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to: Assistant Commissioner of Patents

Michene Mustata

3. U.S. Patent No. 3,811,507, issued to Flournoy, et al., dated May 21, 1974;
4. U.S. Patent No. 3,506,071, issued to Stanley C. Jones, et al., dated April 14, 1970;
5. U.S. Patent No. 3,637,017, issued to Gale, et al., dated January 25, 1972;
6. U.S. Patent No. 3,811,505, issued to Flournoy, et al., dated May 21, 1974;
7. U.S. Patent No. 3,939,911, issued to Maddox, Jr., et al., dated February 24, 1976;
8. U.S. Patent No. 3,954,627, issued to Dreher, et al., dated May 4, 1976;
9. U.S. Patent No. 3,997,451, issued to Plummer, et al., dated December 14, 1976;
10. U.S. Patent No. 4,042,030, issued to Savins, et al., dated August 16, 1977;
11. U.S. Patent No. 4,110,229, issued to Carlin, et al., dated August 29, 1978;
12. U.S. Patent No. 4,110,232, issued to Schwab, et al., dated August 29, 1978;
13. U.S. Patent No. 4,124,073, issued to Wier, dated November 7, 1978;
14. U.S. Patent No. 4,125,158, issued to Waite, et al., dated November 14, 1978;
15. U.S. Patent No. 4,138,345, issued to Williams, dated February 6, 1979;
16. U.S. Patent No. 4,177,207, issued to Nussbaum, et al., dated December 4, 1979;
17. U.S. Patent No. 4,193,452, issued to Wilson, et al., dated March 18, 1980;
18. U.S. Patent No. 4,194,565, issued to Kalfoglou, dated March 25, 1980;
19. U.S. Patent No. 4,214,999, issued to Carlin, et al., dated July 29, 1980;
20. U.S. Patent No. 4,222,727, issued to Carlin, et al., dated January 20, 1981;

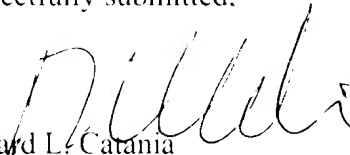
22. U.S. Patent No. 4,252,192, issued to Nussbaum, et al., dated February 24, 1981;
23. U.S. Patent No. 4,265,308, issued to Hedges, et al., dated May 5, 1981;
24. U.S. Patent No. 4,288,334, issued to McCoy, et al., dated September 8, 1981;
25. U.S. Patent No. 4,293,428, issued to Gale, et al., dated October 6, 1981;
26. U.S. Patent No. 4,371,444, issued to McCoy, et al., dated February 1, 1983;
27. U.S. Patent No. 4,393,937, issued to Dilgren, et al., dated July 19, 1983;
28. U.S. Patent No. 4,425,455, issued to Turner, et al., dated January 10, 1984;
29. U.S. Patent No. 4,425,461, issued to Turner, et al., dated January 10, 1984;
30. U.S. Patent No. 4,448,697, issued to McCoy, et al., dated May 15, 1984;
31. U.S. Patent No. 4,458,048, issued to Schmitt, dated July 3, 1984;
32. U.S. Patent No. 4,458,052, issued to Schmitt, dated July 3, 1984;
33. U.S. Patent No. 4,488,976, issued to Dilgren, et al., dated December 18, 1984;
34. U.S. Patent No. 4,525,522, issued to Turner, et al., dated June 25, 1985;
35. U.S. Patent No. 4,529,522, issued to Schmitt, dated July 16, 1985;
36. U.S. Patent No. 4,562,727, issued to Dilgren, et al., dated January 7, 1986;
37. U.S. Patent No. 4,579,669, issued to Walker, et al., dated April 1, 1986;
38. U.S. Patent No. 4,579,671, issued to Lundberg, et al., dated April 1, 1986;
39. U.S. Patent No. 4,615,393, issued to Sedillo, et al., dated October 7, 1986;

41. U.S. Patent No. 5,360,787, issued to Bloys, et al., dated November 1, 1994;
42. U.S. Patent No. 5,911,276, issued to Kieke, dated June 15, 1999;
43. Kirk-Othmer Encyclopedia of Chemical Technology, Vol. 18, 4th Ed., pages 404-433, 1996;
44. Enhanced Oil Recovery Using Lignosulphonate/Petroleum Sulphonate Mixtures, C. Chiwetelu, et al., Institution of Chemical Engineers, Vol. 60, 1982;
45. Enhanced Oil Recovery by Displacement with Saline Solutions, Gulf Publishing Company, Book Division, pages 34-53 (1980);
46. Aqueous Surfactant Systems for Oil Recovery, Journal of Petroleum Technology, February, 1973;
47. The Low-Tension Polymer Flood Approach to Cost-Effective Chemical EOR, SPE, DOE, 20220;
48. Surfactant-Enhanced Alkaline Flooding at Intermediate pH, Department of Chemical Engineering, Illinois Institute of Technology, Chicago, IL, 60616, No. 280, Vol. 87;
49. PCT International Application No. WO/99/36376, issued to Berger, et al., dated July 22, 1999; and
50. European Patent Specification No. 0 259 111 B1, issued to Lundberg, et al., dated October 7, 1991;

Applicants are submitting copies of the above-cited references.

Inasmuch as this Information Disclosure Statement is being submitted in accordance with the schedule set out in 37 C.F.R. § 1.97(b), no statement or fee is required.

Respectfully submitted,



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TRANSMITTAL OF INFORMATION DISCLOSURE STATEMENT
(Under 37 CFR 1.97(b) or 1.97(c))

Docket No.
PER0025 (14285)

In Re Application Of: **Wangqi HOU, et al.**

Serial No.
09/595,996

Filing Date
June 16, 2000

Examiner
Unassigned

Group Art Unit
3672

Title: **SURFACTANT BLENDS FOR AQUEOUS SOLUTIONS USEFUL FOR IMPROVING OIL RECOVERY**

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Address to:
**Assistant Commissioner for Patents
Washington, D.C. 20231**

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37 CFR 1.97(b)

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1. ☒ The Information Disclosure Statement submitted herewith is being filed within three months of the filing of a national application; within three months of the date of entry of the national stage as set forth in 37 CFR 1.491 in an international application; or before the mailing date of a first Office Action on the merits, whichever event occurs last.

37 CFR 1.97(c)

2. ☐ The Information Disclosure Statement submitted herewith is being filed after three months of the filing of a national application, or the date of entry of the national stage as set forth in 37 CFR 1.491 in an international application; or after the mailing date of a first Office Action on the merits, whichever occurred last but before the mailing date of either:

1. a Final Action under 37 CFR 1.113, or
2. a Notice of Allowance under 37 CFR 1.311,

whichever occurs first.

Also submitted herewith is:

- ☐ a certification as specified in 37 CFR 1.97(e);

OR

- ☐ the fee set forth in 37 CFR 1.17(p) for submission of an Information Disclosure Statement under 37 CFR 1.97(c).

TRANSMITTAL OF INFORMATION DISCLOSURE STATEMENT
(Under 37 CFR 1.97(b) or 1.97(c))

Docket No.
(PER0025) 4285

In Re Application Of: Wangqi HOU, et al.

Serial No.

3,995,996

Filing Date

June 16, 2000

Examiner

Unassigned

Group Art Unit

3672

Title: SURFACTANT BLENDS FOR AQUEOUS SOLUTIONS USEFUL FOR IMPROVING OIL RECOVERY

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Payment of Fee

(Only complete if Applicant elects to pay the fee set forth in 37 CFR 1.17(p))

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- ☐ A check in the amount of _____ is attached.
- ☒ The Assistant Commissioner is hereby authorized to charge and credit Deposit Account No. 19-1013/SSMP as described below. A duplicate copy of this sheet is enclosed.
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Signature

Dated: April 26, 2001

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